## **EAST Search History**

| Ref<br>#   | Hits | Search Query   | DBs     | Default<br>Operator | Plurals | Time Stamp       |
|------------|------|--|---------|---------------------|---------|------------------|
| S1         | 40   | 257/741,746,750,753,757,762,774. ccls. and (barrier near2 metal) same insulat\$3 same interconnect   | USPAT   | OR                  | OFF     | 2007/08/21 11:13 |
| S2         | 0    | 257/741,746,750,753,757,762,774. ccls. and (fusion same metal same (metal adj compound)) and (fusion with atomic)                              | USPAT   | OR                  | OFF     | 2007/08/20 10:18 |
| S3         | 0    | 257/741,746,750,753,757,762,774.<br>ccls. and (fusion same metal same<br>(metal adj compound))   | USPAT   | OR                  | OFF     | 2007/08/20 10:18 |
| S4         | 0    | 257/741,746,750,753,757,762,774.<br>ccls. and (fusion same (metal adj<br>compound))  | USPAT   | OR                  | OFF     | 2007/08/20 10:19 |
| S5 .       | 0    | 257/741,746,750,753,757,762,774. ccls. and (fusion same (metal near compound))   | USPAT   | OR ,                | OFF     | 2007/08/20 10:20 |
| S6         | 1    | 257/741,746,750,753,757,762,774. ccls. and (fusion and (metal near compound))  | USPAT   | OR                  | OFF     | 2007/08/20 10:37 |
| <b>S</b> 7 | . 0  | 257/741,746,750,753,757,762,774.<br>ccls. and (fusion adj layer) with<br>adhes\$3  | USPAT   | OR                  | OFF     | 2007/08/20 10:38 |
| S8         | 55   | 257/741,746,750,753,757,762,774. ccls. and fusion  | USPAT   | OR                  | OFF     | 2007/08/20 10:46 |
| S9         | 0    | "257".clas. and (fusion with metal with compound) and barrier  | USPAT   | OR                  | OFF     | 2007/08/20 10:45 |
| S10        | 2026 | "257".clas. and (fusion)   | USPAT   | OR                  | OFF     | 2007/08/20 10:45 |
| S11        | 71   | 257/741,746,750,753,757,762,774.<br>ccls. and ((adhe\$4 or bond\$3) with<br>metal with compound)   | USPAT   | OR                  | OFF     | 2007/08/20 10:48 |
| S12        | 7    | 257/741,746,750,753,757,762,774. ccls. and ((adhe\$4 or bond\$3) with metal with (metal adj compound))   | USPAT   | OR                  | OFF     | 2007/08/20 10:48 |
| S13        | 8    | 257/741,746,750,753,757,762,774. ccls. and (barrier near5 metal adj (oxide or carbide or silicide)) with (advantage or improv\$3 or enhanc\$3) | USPAT . | OR                  | OFF     | 2007/08/21 13:20 |
| S14        | 44   | 257/741,746,750,753,757,762,774.<br>ccls. and (barrier near5 metal adj<br>(oxide or carbide or silicide))                                      | USPAT   | OR                  | OFF     | 2007/08/21 13:21 |
| S15        | 22   | 257/741,746,750,753,757,762,774.<br>ccls. and (barrier near5 metal adj<br>(silicide))  | USPAT   | OR                  | OFF     | 2007/08/21 15:48 |

## **EAST Search History**

| S16 | 17 | (barrier near5 metal adj (silicide)) with (benefit or advantage or | USPAT | OR | OFF | 2007/08/21 15:49 |
|-----|----|--|-------|----|-----|------------------|
|     |    | enhanc\$3 or improv\$3)  |       |    |     |                  |